

**Patent claims**

1. A sealing arrangement for a rolling-contact bearing (2), comprising an elastic sealing disk (3) running  
5 around with an outer bearing ring (5) or a housing, having a reinforcement (10) and positionally fixed with positive engagement in a receptacle or an annular groove (4), the sealing disk (3) engaging with a flexible seal in a recess (16) of an inner  
10 bearing ring (9) and being supported by means of a sealing edge (17) on a wall (18), characterized in that the first sealing lip (14) is supported axially on the outer wall (18) of the recess (16) and a second sealing lip (15) is assigned to the  
15 inner wall (9) of the recess (16) with play, a mass of the first sealing lip (14) forming a center of mass (25), which, in a fitted position of the sealing arrangement (1), is offset in relation to a supporting line determined by the sealing disk (3)  
20 in such a way that the centrifugal force acting at the center of mass (25) initiates a force component acting in the clockwise direction.
2. The sealing arrangement as claimed in claim 1, in  
25 which a shoulder diameter ( $D_1$ ) of the inner bearing ring (9) exceeds an inside diameter ( $D_2$ ) of the inner sealing lip (15).
3. The sealing arrangement as claimed in claim 2, in  
30 which a distance (a) between the inner wall (19) of the recess (16) and a free end of the second sealing lip (15) is designed in such a way that, even with a maximum rotational speed of the rolling-contact bearing (2), it ensures a distance  
35 ( $a$ )  $> 0$ .
4. The sealing arrangement as claimed in claim 1, the first and second sealing lips (14, 15) being made



10. The sealing arrangement as claimed in claim 9, the venting groove (26) of which is made to extend in a radial or inclined manner.
- 5 11. The sealing arrangement as claimed in claim 1, which is intended for a rolling-contact bearing (2) that is used in a tensioning roller or a deflecting roller of a tensioning system by which a belt or the like of a belt, chain or similar drive is pretensioned.
- 10 12. The sealing arrangement as claimed in claim 11, the construction of the tensioning roller or deflecting roller comprising a running disk which encloses the rolling-contact bearing and at the same time undertakes the function of an outer peripheral bearing ring.
- 15 13. The sealing arrangement as claimed in claim 11, in which the tensioning roller or deflecting roller includes a rotationally fixed locating pin or carrying body for the rolling-contact bearing which at the same time includes the function of an inner, rotationally fixed bearing ring.
- 20 14. The sealing arrangement as claimed in claim 1, the reinforcement (10), formed in the manner of a disk, of the sealing disk (3) being encapsulated at least on one side by an elastic sealing material of the sealing arrangement (1) and the reinforcement (10) forming on the outside an angled-away flange (11) and on the inside a leg (12) inclined obliquely in the direction of the recess (16).
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